

Eastern Arizona Amateur Radio Society

EST. 1974

INC.

www.eaars.com

facebook.com/groups/eaars

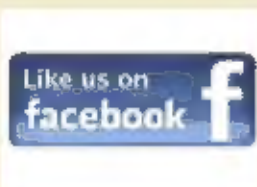
Club Address: EAARS, PO Box 398, Solomon, AZ 85551



August, 2017

JOIN EAARS on Facebook

EAARS has a presence on Facebook and you are invited to **JOIN** the page. This is a great media to quickly share news, photos and events that are EAARS related or might be interesting to the members. If you utilize "Notifications" on the EAARS Facebook page, you can receive club updates AS THEY HAPPEN. To reach the page, please visit facebook.com/groups/eaars and **JOIN** the page. You must have a Facebook account to be part of the EAARS group.



Welcome New EAARS Members!

Roy	KK6VIA
JP	KI7OFK
Kevin	KI7OUZ

AWESOME

EAARS Open Repeaters

PL 141.3 unless noted otherwise

Echolink: 614350 **IRLP:** 7787

Heliograph Peak at Safford, AZ:

146.860, 440.700 Linked
146.900

Jacks Peak at Silver City, NM:

145.210 Linked

West Peak at Ft Thomas, AZ:

145.350 Access to link to network

Pinal Peak at Globe, AZ:

145.410 Linked

South Mt at Alpine, AZ:

145.270 Linked

Caballo Mt at TorC, NM:

145.470 Linked

Greens Peak at Show Low, AZ

146.700 Linked

Little Florida at Deming, NM:

147.060 Linked

Mule Mt at Bisbee, AZ:

147.080 Linked

Mt Lemmon at Tucson, AZ

147.160 Linked

Guthrie Peak at Clifton, AZ:

147.280 Linked

AZ Heliograph Peak:

447.8250 Not Linked

Gals on the Air!

Calling all Gals of any class ... Join us every Monday night for the
Gals Night Net @ 7:30 pm (AZ) on the EAARS system!

Upcoming Events

*Would You like to see your event posted for the membership to see?
Email your information to emberfire@cox.net.*

Sept 16, 2017 EAARS Picnic - Safford, AZ

Oct 22, 2017 Making Strides Against Breast Cancer - Tucson,

April 14, 2018 March for Babies - Tucson

Did you know that you can see the Public Service Opportunities
on soazhamservice.net? The events are posted by dates and
who leads them. If you are interested in participating or have
any questions, please feel free to contact them.

WEEKLY EAARS' NETS

Every day:

Down Under Net - 4:15 am

Weather Net - 5:30 am

NTS Traffic Net - 6:30 pm

Sunday:

EAARS Net - 7:00 pm

Monday:

Gals Night Net - 7:30 pm

Wednesday:

Skywarn Net - During Monsoon, Every Wednesday at 7:30 pm,

Off Season, every second Wednesday of month at 7:30 pm

Saturday:

ERC (Emergency Response Communications) Net - 8:45 am ,

2nd Saturday of the month (20-25 min duration)

2016 Officers and Staff

Board Officers

President	Dave Wells	N7AM
Vice President	Dan Quaintance	AF7EF
Secretary/Treasurer	Larry Griggs	N5BG

Staff

Site Trustee	Joe Montierth	K7JEM
Net Manager	Chris Buchanan	N7JND
Newsletter Editor	Angie Buchanan	N7EMB

Net Control Operators

Rick	KE7EDP	1st Sunday
Angie	N7EMB	2nd Sunday
Mike	W7IJ	3rd Sunday
Chris	N7JND	4th Sunday

Ham Radio Operators to Hold 'Special Event' During Solar Eclipse (eHam.net)

ALTON — The public is invited to observe members of the Lewis & Clark Radio Club, Inc. attempting to communicate with other amateur radio operators across the United States during the upcoming Solar Eclipse event from 11 a.m. to 2 p.m. on Monday, Aug. 21 at Riverview Park in Alton.

Members of the Lewis & Clark Radio Club, Inc. will set up and operate a "special event" amateur radio station in the park and attempt contact with other ham radio operators across the country during the solar eclipse.

"This will be a citizen's scientific experiment," said John Nell, chairman for the event. "Since hams are dependent upon layers of the ionosphere to communicate around the globe, and the sun affects each of those layers differently, we're not sure what (if any) effect the solar eclipse will have on our radio communication capabilities. We hope this experiment will shed some light on the subject."

The Lewis & Clark Radio Club, Inc. is a group of radio amateurs (hams) who have come together for fellowship, promotion of the amateur radio hobby, and public service to the community.

For more information on the event, contact John Nell at (618) 791-0016 or via email at jdnell@charter.net. For information on Lewis & Clark Radio Club, Google "K9HAM.ORG."

**Wendell W7WGW
SK**

**ALL BANDS ARE NOW
OPEN FOR YOU!**

REST IN PEACE!

We will see you down the road.



Wendell Winter, 56, of rural Pima, passed into the arms of his Lord and Savior on Saturday, July 15, at Tucson Medical Center, after a short illness. Wendell was born to Alfred and Mildred Winter in Boyden, Iowa, on Oct. 19, 1960.

Wendell was a lifelong Lutheran in faith and a charter member of Our Savior Lutheran Church in Safford, where he loved to assist with church services. Wendell was involved as a HAM shortwave radio operator and enjoyed his time talking online with friends in many places.

Wendell worked as a crop-duster technician at times and excelled with his love of computer technology that he used to support church services.

Wendell and his family lived in northwest Iowa and moved to Mesa in 1966. Wendell graduated from Mesa High School in 1979. The family moved from Mesa to Queen Creek, and then to Pima, where the family have been longtime residents.

Wendell had an infectious laugh and smile as he enjoyed telling humorous stories, and he will be sorely missed by all his family and friends.

Wendell was preceded in death by: his parents, Alfred and Mildred; brother, Keith Winter; sister-in-law, Patricia Winter; and brother-in-law, Harold Stueven.

Wendell is survived by: his siblings, Lois Stueven, of George, Iowa, Virgil Winter, Norman Winter; sister-in-law Gaylynn, and Dennis Winter, all of Terre Haute, Ind.; and Arvin Winter, of rural Pima.

A memorial service was held at noon, Saturday, July 29, 2017, at Our Savior Lutheran Church, 1124 Thatcher Blvd. (Windsong Building), Suite 200, Safford.

EAARS Field Day 2017



EAARS participation in ARRL Field Day 2017 was truly an exercise in emergency preparedness, fun, and a learning experience. We were all set to hold this year's field day at Cluff Ranch Pond #3 June 24-25th, however on June 20th we received notification from Fish and Game that we would have to relocate because the pond was reserved for firefighting helicopters to replenish their water supplies to fight the Frye fires burning on Mt. Graham. With little notification we decided to move our efforts this year to the Mesa just south of Klondyke Rd. on BLM land, where we routinely hold our Winter Field Day event.

Dave, N7AM, our club President, and Luvina, KC7LEW, moved EAARS Communications Bus, and I moved my motor home on site Friday evening just before dark. Myself and two of my grandchildren, Dakota (15), and Caylun (8), spent the night to watch the bus and to be prepared to begin setup at daybreak Saturday morning.

First thing in the morning I began setup of my 20 Meter MOXON beam, on my motor homes telescoping mast, and was just finishing up when Dave, and Richard, K17CJ, showed up to assist in setup. While I finished up on my MOXON Dave and Richard, worked on setting up the SBTv only to discover the threaded section that connects the 80 Meter coil top section was missing. Curt K7ZOO reported by radio that he had arrived in the Safford area from Tucson, so he was asked to stop by a hardware store and pick up what we needed to get the SBTv ready for use.

While we waited for Curt with the parts to finish the SBTv setup we connected our 7 Band Off-Center-Fed (OCF) Dipole and a Triband Dipole, constructed by Dave for digital work, to the bus' tilt up mast and raised it into position. As we were setting up the end supports for the OCF Curt arrived with parts and immediately went to work himself setting up his 135 ft. doublet on his 28 ft. push up mast.

As the 11am start time approached we had finished all outside setup and moved inside to connect the bus' networking system to laptops connected via CAT cable to all radios and prepared to begin operations. By this time Gary, W7MIN, and Byron, AA7BM, arrived and assisted in final setup.

On your mark, get set, GO! Field Day 2017 operations for EAARS began with Curt hammering away at CW on his personal radio, and Gary handling SSB on one of the FT-1000MPs that stay permanently ready in the Bus.

Our first visitor, Hank Metzger from Graham County Emergency Services signed in earning EAARS a 100 point bonus for a visit from an agency served.

Once I had a moment I attempted to get the digital station up and running with not much success. I had not worked with the setup Dave had going, and he had to leave earlier to attend another function he had, so we had to wait for his return to finally get the digital up and running. Until we could get the digital going Richard and Byron worked together to make SSB contacts from his Portable Backpack Radio setup.

Continued on page 6



EAARS Field Day 2017



As the day began to heat up and temperatures in the bus began to exceed 100 degrees we started the bus' air conditioners to soon discover they would not work without one of them kicking off on its own accord and the second wanted to kick out breakers on the generator every time a radio would transmit. So we opened roof vents and doors and operated in the heat. Soon trouble hit Curt's computer as it kept overheating – he had to log by hand while he would let it cool off. Later in the day Curt managed to copy the ARRL bulletin on CW, worth 100 bonus points.

That afternoon Wendell W7WGW and his brother Arvin showed up and cooked everyone delicious hamburgers and chips. Later that evening Dave returned and got the digital station running with a click of a button inside a menu of N1MM. Who would have known the fix would be so simple?

While Dave operated digital I took over on the SSB station Gary was operating earlier. Wasn't long and around 10pm I began to run down and decided to call it a night so I could hit it first thing in the Morning. Dave and Curt continued operations into the wee hours of the morning.

Sunday morning I was up a 4am and went to work on the SSB station managing to get some 80 meter contacts and a number of 40 meter contacts then switched to 20 meters where I stayed for the rest of the event. Curt joined shortly thereafter, also running on 40 meters.

Penny KE7EDQ showed up, and both my grandchildren made a QSO each so we were able to pick up 40 Youth Participation bonus points. Richard though out the event took time to educate visitors and participants about how he constructed his portable backpack radio system.

The final bell rang, so to speak, and we concluded operations and tore down, said our good byes and best wishes to one another and went our separate ways looking forward to the next event we work together.

Thanks go out to all that made this a successful, educational, and fun Field Day.

73

Dan ~ AF7EF

KACHINA ARC Field Day 2017



Submitted by
Vince KA7JOI



The Kachina ARC participated in Field Day 2017 from Mountain Meadows Park in Pinetop, AZ. Rather than treating the event as a contest, the club used the opportunity to exercise our capabilities as a club to setup and operate away from the QTH and off the grid. There are always lessons to learn while operating under difficult conditions.

There were 5 stations operating from three different locations in the park. Three of the stations used dipole antennas, one used ham sticks, and the toad used its built-in antenna. Two stations were powered using straight battery power while two others used battery power maintained by solar power.

The two stations on solar power successfully setup and operated away from the crowd among the pine trees demonstrating that it can be done and relatively easily.

Next year we expect to have all stations on battery power maintained by individual solar systems.

Having the Navajo County TOAD at the site allowed the club to get acquainted with its capabilities and limitations.

Field day 2017 was a great opportunity for the Kachina ARC to acquaint itself with operating under "different" conditions. Everyone agrees that it was a great experience.

AZ SUN BUMS Field Day 2017

Field Day in Arizona is always awesome. Most if not, all Arizona Ham Radio clubs participated in Field Day activities. Some go to their club grounds, while others operate in air conditioned buildings. Some go to the mountains or open areas while others, like my wife and I go to the White Mountains near Concho Arizona. While the main objective is to be on the air for 24 hours, it's always interesting what's done at the sites before and after Field Day.

My wife and I participated with the Arizona Sun Bums in Concho Arizona. We spent a whole week from Wednesday to Wednesday at the property of Mike and Mary Boger - W7IJ. We ate well every single day. Most of our large group meals were at dinner time. Everything from brisket, ham, chili, beans, potato and pasta salad, hot dogs, Kielbasa and even homemade ice cream were just some of the menu items. But there's plenty to do than just operate radio. Every night we spent just relaxing and having a social hour every night. The weather was hot and windy during the day, but the people and night temps made up for it. I can only assume that the other Field Day teams around Arizona did the same thing.

The actual operating during Field Day was awesome. Everyone who wanted to operate, DID. The antenna farm for our 4A setup came together nicely on the Friday before. 10 acres is a lot of room to place antennas. What makes Field Day great, is the people you get to hang out with during your stay. No Field Day politics. Just 9 people getting together to have lots of fun.

We look forward to next year already. Thanks to all clubs, groups and even the lone operator operating from home. This is what makes Field Day so fun....Making Those Contacts.

Hear ya next year.

73... Chris - N7JND



AZ SUN BUMS Field Day 2017



Standard and Metric Wire Comparison Table	CIRCUIT TYPE				CURRENT FLOW IN AMPS															
	10% VOLTAGE DROP Non Critical		3% VOLTAGE DROP Critical		5A	10A	15A	20A	25A	30A	40A	50A	60A	70A	80A	100A	120A	150A	200A	
	0 to 25 ft.	0 to 50 ft.	0 to 6 ft.	0 to 1.0 ft.																
	0 to 25 ft.	0 to 50 ft.	0 to 6 ft.	0 to 1.0 ft.	20 ft.	40 ft.	60 ft.	80 ft.	100 ft.	120 ft.	140 ft.	160 ft.	180 ft.	200 ft.	220 ft.	240 ft.	260 ft.	280 ft.	300 ft.	
10 AWG	2.0 ft.	4.0 ft.	1.0 ft.	0.2 ft.	10 A	20 A	30 A	40 A	50 A	60 A	70 A	80 A	90 A	100 A	110 A	120 A	130 A	140 A	150 A	
12 AWG	1.0 ft.	2.0 ft.	0.5 ft.	0.1 ft.	5 A	10 A	15 A	20 A	25 A	30 A	35 A	40 A	45 A	50 A	55 A	60 A	65 A	70 A	75 A	
14 AWG	0.5 ft.	1.0 ft.	0.25 ft.	0.05 ft.	2.5 A	5 A	7.5 A	10 A	12.5 A	15 A	17.5 A	20 A	22.5 A	25 A	27.5 A	30 A	32.5 A	35 A	37.5 A	
16 AWG	0.25 ft.	0.5 ft.	0.125 ft.	0.025 ft.	1.25 A	2.5 A	3.75 A	5 A	6.25 A	7.5 A	8.75 A	10 A	11.25 A	12.5 A	13.75 A	15 A	16.25 A	17.5 A	18.75 A	
18 AWG	0.125 ft.	0.25 ft.	0.0625 ft.	0.0125 ft.	0.625 A	1.25 A	1.875 A	2.5 A	3.125 A	3.75 A	4.375 A	5 A	5.625 A	6.25 A	6.875 A	7.5 A	8.125 A	8.75 A	9.375 A	
20 AWG	0.0625 ft.	0.125 ft.	0.03125 ft.	0.00625 ft.	0.3125 A	0.625 A	0.9375 A	1.25 A	1.5625 A	1.875 A	2.1875 A	2.5 A	2.8125 A	3.125 A	3.4375 A	3.75 A	4.0625 A	4.375 A	4.6875 A	
22 AWG	0.03125 ft.	0.0625 ft.	0.015625 ft.	0.003125 ft.	0.15625 A	0.3125 A	0.46875 A	0.625 A	0.78125 A	0.9375 A	1.09375 A	1.25 A	1.40625 A	1.5625 A	1.71875 A	1.875 A	2.03125 A	2.1875 A	2.34375 A	
24 AWG	0.015625 ft.	0.03125 ft.	0.0078125 ft.	0.0015625 ft.	0.078125 A	0.15625 A	0.234375 A	0.3125 A	0.390625 A	0.46875 A	0.546875 A	0.625 A	0.703125 A	0.78125 A	0.859375 A	0.9375 A	1.015625 A	1.09375 A	1.171875 A	
26 AWG	0.0078125 ft.	0.015625 ft.	0.00390625 ft.	0.00078125 ft.	0.0390625 A	0.078125 A	0.1171875 A	0.15625 A	0.1953125 A	0.234375 A	0.2734375 A	0.3125 A	0.3515625 A	0.390625 A	0.4296875 A	0.46875 A	0.5078125 A	0.546875 A	0.5859375 A	
28 AWG	0.00390625 ft.	0.0078125 ft.	0.001953125 ft.	0.000390625 ft.	0.01953125 A	0.0390625 A	0.05859375 A	0.078125 A	0.09765625 A	0.1171875 A	0.13671875 A	0.15625 A	0.17578125 A	0.1953125 A	0.21484375 A	0.234375 A	0.25390625 A	0.2734375 A	0.29296875 A	
30 AWG	0.001953125 ft.	0.00390625 ft.	0.0009765625 ft.	0.0001953125 ft.	0.009765625 A	0.01953125 A	0.029296875 A	0.0390625 A	0.048828125 A	0.05859375 A	0.068359375 A	0.078125 A	0.087890625 A	0.09765625 A	0.107421875 A	0.1171875 A	0.126953125 A	0.13671875 A	0.146484375 A	

Although this program uses information from ABYC E-11 to recommend wire size and circuit protection, it may not cover all of the unique characteristics that may exist on a boat. If you have specific questions about your installation please consult an ABYC certified installer.

© Copyright 2017 Blue Sea Systems Inc. All rights reserved. Unauthorized copying or reproduction is a violation of applicable laws.

Announcing the annual EAARS picnic, to be held at Discovery Park in Safford on Saturday September 16th, 2017 starting at 2:00 pm. As has been the policy of EAARS over the past few years, this picnic is for current paid up EAARS members ONLY and immediate family, IE spouse/child. You should know whether or not you are a current member. If any questions in this regard, just ask. Thank you all for your understanding.

EAARS will be furnishing the meat and drinks. We will also provide paper plates and plastic utensils. We suggest however that you bring your own utensils for easier cutting of the meat. If you desire to bring something to share, such as salad, desert, etc that will be fine.

The picnic will be by RSVP. Please email your intentions to attend no later than Thursday, September 7th to Larry N5BG. (reply to this email will work) Please in your RSVP indicate your callsign, name and number in your party.
Email: lgriggs@aznec.net Note we require this lead time for placing the order for the food.

Looking forward to seeing some of you.

73, Larry N5BG eaars secy/treas

Cooking up
Some Magic



Pork Fried Rice



Ingredients

2 tbsp. vegetable oil, divided
3 large eggs, lightly beaten
1/2 onion, chopped
1 carrot, peeled and cut into 1/4" pieces
1/2 lb. ground pork
kosher salt
Freshly ground black pepper
1 tbsp. grated ginger
2 cloves garlic, minced
1 c. frozen peas
4 c. cooked white rice
2 tbsp. low-sodium soy sauce
1 tbsp. hoisin sauce
3 green onions, thinly sliced
1 tsp. sesame oil

DIRECTIONS

1. In a large skillet over medium heat, heat 1 tablespoon vegetable oil. Add eggs and let sit for a few seconds before lightly scrambling and folding the egg mixture over itself. Remove from skillet and set aside.
2. In the same skillet, heat remaining tablespoon oil then add onion and carrot. Cook, stirring occasionally, until the vegetables are tender. Add the ground pork to the skillet and season with salt and pepper, then cook until the pork is no longer pink and is starting to caramelize. Stir in the ginger, garlic, and peas and cook until fragrant, about 1 minute.
3. Add the rice then stir in the soy sauce, hoisin, green onions, and sesame oil. Toss to combine and serve immediately.

kiss the
COOK